

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of

Applicant(s) : Kenichiro Hasumi et al.
Application No. : 10/738,259
Filed : February 2, 2004
Title : Human Lymphocyte Vaccine Adjuvant
Examiner : Louise Wang Zhiying Humphrey
Art Unit : 1648
Attorney Docket: 075303.00002

DECLARATION UNDER 37 C.F.R. § 1.132

I, Dean LeMar Mann, M.D., declare as follows:

1. I am one of the named inventors of the invention described and claimed in the above-identified patent application.

2. I am a citizen of the United States and reside at 10533 Tuckerman Heights Circle, Rockville, Maryland 20852. Information regarding my educational training and employment history is detailed in a copy of my curriculum vitae, which is attached hereto as Exhibit A.

3. I have read and am thoroughly familiar with the contents of the above-identified patent application, the contents of the Office Action dated December 10, 2008, as well as the references cited therein. It is my well-considered opinion that none of the references cited in the Office Action teaches or suggests, when viewed alone or in combination, the unexpected finding of the claimed invention that administering to a mammal an antigen and culture medium supernatant derived from peripheral blood mononuclear cells (PBMCs), which have been activated with anti-CD3- and anti-CD28-coated beads in the culture medium, enhances the immune response to the antigen in the mammal.

4. The surprising finding that supernatant derived from activated PBMCs, which contains culture products such as cytokines and chemokines, augments the immune response to an antigen *in vivo* was observed during clinical trials that were conducted on patients receiving bone marrow transplants. In these trials, anti-CD3/anti-CD28 activated T cells were infused into the patients to see if the activated T cells would enhance a patient's response to an antigen. We found that a patient's immune response to an antigen was augmented, but could not identify antigen-specific memory T cells in the infused cell

population. We subsequently found that the products released from the activated T cells could account for the enhanced immune response to an antigen in the patient. We then conducted studies on rhesus monkeys, in which we administered supernatant containing culture products derived from anti-CD3/anti-CD28 activated PBMCs in combination with standard vaccines and showed an enhancement of the immune response to the vaccines.

5. To the best of my knowledge, I am not aware of research studies or publications by other investigators which show that products of PBMCs activated by anti-CD3/anti-CD28 enhance immune responses when administered as an adjuvant to an antigen.

6. I declare further that all statements made herein of my own knowledge are true and that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application and any patent issuing thereon.


Dean LeMar Mann, M.D.

06/03/09
(DATE)

Exhibit A

Curriculum Vitae

Dean L. Mann, M.D.
Professor and Head, Division of Immunogenetics
University of Maryland, School of Medicine

Date September 17, 2008

Personal Information

Business Address	Division of Immunogenetics Department of Pathology University of Maryland, School of Medicine, and Program in Oncology The University of Maryland Marlene and Stewart Greenebaum Cancer Center
Office Address	University of Maryland Medical System Department of Pathology, Division of Immunogenetics 22 S. Greene Street Baltimore, MD 21201
Phone Number	(410) 328-5512

Education

1956	B.A.	Science	Goshen College, Goshen, Indiana
1963	M.D.		St. Louis University School of Medicine St. Louis, MO

Internship (medical)

1963-1964	St. Louis University Hospital St. Louis, MO
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Residency

1964-1966	Assistant Resident, St. Louis University Hospital St. Louis, MO
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Fellowships

1966-1968	NIH Postdoctoral Fellowship in Immunology
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Medical Licensures

Virginia

Maryland (Active); #D0050237

Major Research

Interests

Immunogenetics; cell surface antigens; structure/function of major histocompatibility gene products. Immunobiology of AIDS and cancer.

Employment History

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| 1968-1983 | Medical Officer, NIH, NCI, Division of Cancer Biology and Diagnosis, Bethesda, MD |
| 1983-1987 | Medical Officer, NIH, NCI, Division of Cancer Etiology, Laboratory of Human Carcinogenesis, Bethesda, MD |
| 1984-1987 | Head, Biochemical Epidemiology Section, Laboratory of Human Carcinogenesis, Bethesda, MD |
| 1987-1996 | Chief, Immunogenetics Section, Laboratory of Viral Carcinogenesis, DBS, NCI-FCRDC, Frederick, MD |
| 1996-present | Professor, Department of Pathology, University of Maryland, Baltimore, School of Medicine |

Major Academic Tasks

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| 1996-2005 | Associate Director, American Red Cross National Histocompatibility Testing Laboratory of the University of Maryland |
| 1996-present | Head, Division of Immunogenetics, Department of Pathology, University of Maryland, Baltimore, School of Medicine. The Division has a clinical laboratory that provides histocompatibility testing for transplant services at the University Hospital. |

Professional Memberships

American Association for Histocompatibility and Immunogenetics
American Federation for Clinical Research
American Association of Immunologists
Transplantation Society
American Society for Clinical Investigation

Honors, Awards

Alpha Omega Alpha
Distinguished Visiting Professor, University of Vienna, School of Medicine, Vienna, Austria

Administrative Service

Institutional Service

Member, External Advisory Board, Myeloma Institute for Research and Therapy, University of Arkansas, School of Medicine

National Service

Member, NIAID Vaccine Study Section

Editorial Boards

Reviewer:

1985-present	AIDS
"	Blood
"	Clinical Immunology and Immunopathology
"	Journal of AIDS
"	Journal of AIDS and Human Retrovirology
"	Journal of Immunology
"	Nature Medicine
"	Science
"	Journal of Infectious Disease
"	Immunology and Immunopathology
"	Carcinogenesis
2001-present	Immuno-genetics
"	Human Immunology
2002-present	PNAS

Teaching Responsibilities

2005 Currently mentoring 3 graduate students and 1 post-doctoral fellow in my research laboratory and serving on thesis committees of 3 additional graduate students. One 1st year resident rotated through the lab for several months during 2004.

Grant Support

Active

05/15/03-04/30/08	Principal Investigator: Dean L. Mann, MD (20%) 5U01-AI054641-05, The Dow Chemical Co./NIAID "Non-invasive Plant Virus-particle Based Anthrax Vaccines" Annual Direct Costs: \$385,523 Total Direct Costs: \$1,498,371
11/17/03-06/30/08	Principal Investigator: Dean L. Mann, MD (20%) Hasumi International Research Foundation "Development of Dendritic Cell Based Vaccines for Cancer Immunotherapy" Annual Direct Costs: \$152,409 Total Direct Costs: \$1,230,203

05/01/03-06/30/08	Co-investigator: Dean L. Mann, MD (10%) Principal Investigator: Dr. Thomas MacVittie U. S. Department of the Interior, Navy "Adult Bone Marrow Stem Cell Research" Annual Direct Costs: \$350,000
09/01/07-02/28/09	Co-investigator: Dean L. Mann, MD (10%) Principal Investigator: Dr. Shea-Donohue NIH/NIAID, 1RC1AI078520-01 "Novel Therapy for Post-irradiation Insult to Gut Mucosa in Non-Human Primates" Annual Direct Costs: \$468,674
04/01/08-03/31/11	Collaborator: Dean L. Mann, MD (1%) Principal Investigator: Dr. Alessio Fasano NIH/National Center for Complementary and Alternative Medicine 1R21AT004089-01A1 "VSL for Asthma" Annual Direct Costs: \$261,300 Total Direct Costs: \$597,600

Pending

07/01/08-06/30/13	Collaborator: Dean L. Mann, MD (5%) Principal Investigator: Dr. Alessio Fasano NIH "Protease Functions in Intestinal Mucosal Pathobiology" Annual Direct Costs: \$991,029
07/01/08-06/30/13	Co-investigator: Dean L. Mann, MD (5%) Principal Investigator: Dr. Alessio Fasano NIH "Predictors of NEC and Host Responses in the Developing Premature Infant" Annual Direct Costs: \$447,279
07/01/08-06/30/10	Mentor: Dean L. Mann, MD (2.5%) Principal Investigator: Dr. Kim Hankey Mary Kay Ash Foundation "Ex Vivo Expanded NK and NKT Cells for Cancer Immunotherapy" Annual Direct Costs: \$43,263
09/01/08-08/31/09	Faculty: Dean L. Mann, MD (5%) Principal Investigator: Dr. Kim Hankey Department of Defense Breast Cancer Research Program Annual Direct Costs: \$73,824
11/1/08-10/31/13	Principal Investigator: Dean L. Mann, MD (20%) NIH "Interactive Genetic and Etiologic Factors in Innate Immunity in Celiac Disease" Annual Direct Costs: \$25,000

Completed Research Support

09/01/97-08/31/00	Co-investigator: Dean L. Mann, MD (5%) Principal Investigator: Dr. Kaslow #1R01A141951-01/NIH/NIAID (Univ Alabama at Birmingham) Subcontract "Genetic Factors in the Epidemiology of HIV-1 Infection" Annual Direct Costs: \$42,089
07/01/98-12/31/01	Principal Investigator: Dean L. Mann, MD (15%) DAMD17-98-1-8466/ USMRMC "Prostate Tumor Antigen Discovery: Development of a Novel Genetic Approach" Annual Direct Costs: \$125,000
3/1/02-2/28/03	Investigator: Dean L. Mann, MD (5%) Principal Investigator: Dr. Karp 5U01-CA-069854-08/ NCI, NIH "Phase I Trials of Anti-cancer Agents" Annual Direct Costs: \$399,076
8/1/99-7/31/03	Principal Investigator: Dean L. Mann, MD (15%) 5-R24-CA82888-03/ NCI, NIH "Flow Cytometry Applications in Cancer Biology" Annual Direct Costs: \$150,000
9/1/00-8/31/03	Co-PI: Dean L. Mann, MD (10%) Principal Investigator: N. DeClaris, Ph.D. 1-R01-GM58721-01A2/ NIH (U of Texas, M.D. Anderson Cancer Center (Subcontract)) "Robust Generalization in MHC Peptide Binding Models" Annual Direct Costs: \$102,038
7/1/02-6/30/04	Principal Investigator: Dean L. Mann, MD (15%) Hasumi International Research Foundation "Development of Dendritic Cell-Based Vaccines for Cancer Immunotherapy" Annual Direct Costs: \$183,128
6/1/05-4/30/06	Principal Investigator: Dean L. Mann, MD (%) 5U01-AI054641-02, The Dow Chemical Co./NIAID "Non-invasive Plant Virus-particle Based Anthrax Vaccines" Total Direct Costs: \$94,207 (Supplement)
9/1/06-12/31/06	Principal Investigator: Dean L. Mann, MD (%) Fraunhofer USA/ DOD "Targets of the Immune Response Vaccines to Combat Infectious Pathogens" Supplement Total Direct Costs: \$25,589
10/2/00-present	Principal Investigator: Dean L. Mann, MD AP Intramural "Determination of the Role of MICA, MICB in Allograft Rejection" Total Direct Costs: \$9,550.00

11/17/03-6/30/06	<p>Principal Investigator: Dean L. Mann, MD (10%) Hasumi International Research Foundation "Development of Dendritic Cell Based Vaccines for Cancer Immunotherapy" Total Direct Costs: \$397,261</p>
8/5/04-7/31/07	<p>Co-P.I.: Dean L. Mann, MD (15%) Principal Investigator: Aaron Rapoport, MD 5R21CA101356-02, NIH/NCI "Immune Responses to T cell Expansion + PCV Immunization" Total Direct Costs: \$225,000</p>
2/1/06-7/31/06	<p>Principal Investigator: Dean L. Mann, MD TEDCO/MTTF Agreement with Promogen, Inc. & TEDCO/MTTF Total Direct Costs: \$5,387</p>
9/1/04-8/31/06	<p>Principal Investigator: Dean L. Mann, MD (3%) Fraunhofer USA/ DOD "Targets of the Immune Response Vaccines to Combat Infectious Pathogens" Total Direct Costs: \$269,360</p>
8/15/05-1/31/07	<p>Co-investigator: Dean L. Mann, MD (3%) Principal Investigator: Thomas MacVittie, PhD 1R01AI067503-01, NIH/NIAID "Immune Reconstitution in Nonhuman Primates" Annual Direct Costs: \$175,090</p>
3/1/03-2/28/07	<p>Co-investigator: Dean L. Mann, MD (5%) Principal Investigator: Jeffrey Hasday, MD 5R01HL069057-05A1, NIH/NHLBI "Mechanisms of Fever-Enhanced Hyperoxic Lung Injury" Annual Direct Costs: \$250,000 Total Direct Costs: \$1,250,000</p>
4/1/06-3/31/07	<p>Dean L. Mann, MD (2%) Principal Investigator: Scott Strome, MD 5R01DE015324-04/ NIH/NIDCR "MAGE-A3/HPV 16 Peptide Vaccines for Head and Neck Cancer" Annual Direct Costs: \$250,000</p>
8/1/06-7/31/07	<p>Principal Investigator University: Dean L. Mann, MD (4%) Principal Investigator Company: Hahm, Sung Ho M.D. – Promogen, Inc. Maryland Industrial Partnerships (MIPS) "Construction of Synthetic Gene Promoters" Annual Direct Costs: \$52,376</p>

Publications

Peer-reviewed Journal Articles

1. Mann, D.L., Sites, M.L., Donati, R.M., & Gallagher, N.I. Erythropoietic stimulating activity during the first ninety days of life. *Proceedings of the Society for Experimental Biology and Medicine*, 118: 212-217, 1965.
2. Mann, D.L., Donati, R.M., & Gallagher, N.I. Erythropoietin assay and ferrokinetic measurements in anemic uremic patients. *JAMA*, 194: 1321-1324, 1965.
3. Mann, D.L., Donati, R.M., & Gallagher, N.I. Effect of renin, angiotensin II and aldosterone on erythropoiesis. *Proceedings of the Society for Experimental Biology and Medicine*, 121: 1152-1157, 1966.
4. Mann, D.L., Gallagher, N.I., & Donati, R.M. Erythrocytosis and primary aldosteronism. *Annals of Internal Medicine*, 66: 335-339, 1967.
5. Mann, D.L., Donati, R.M., & Gallagher, N.I. Relationship of renal mass to erythropoietin production. *Laboratory Investigation*, 19: 406-411, 1968.
6. Mann, D.L., Rogentine, G.N. Jr., Fahey, J.L., & Nathenson, S.G. Solubilization of human leukocyte membrane isoantigens. *Nature*, 217: 1180-1181, 1968.
7. Mann, D.L., Granger, H., & Fahey, J.L. Use of insoluble antibody for the determination of small amounts of immunoglobulins. *Journal of Immunology*, 102: 618-624, 1969.
8. Mann, D.L., Rogentine, G.N. Jr., Fahey, J.L., & Nathenson, S.G., Solubilization, properties and molecular separation of HL-A alloantigens. *Transplantation Proceedings*, 1: 494-497, 1969.
9. Mann, D.L., Rogentine, G.N. Jr., Fahey, J.L., & Nathenson, S.G. Molecular heterogeneity of human lymphoid (HL-A) alloantigens. *Science*, 163: 1460-1462, 1969.
10. Mann, D.L., Rogentine, G.N. Jr., Fahey, J.L., & Nathenson, S.G. Human lymphocyte membrane (HL-A) alloantigens: Isolation, purification and properties. *Journal of Immunology*, 103: 282-292, 1969.
11. Fahey, J.L., Mann, D.L., Asofsky, R., & Rogentine, G.N. Jr. Recent progress in human transplantation immunology. *Annals of Internal Medicine*, 71: 1177-1195, 1969.
12. Mann, D.L. & Nathenson, S.G. Comparisons of soluble human and mouse transplantation antigens. *Proceedings of the National Academy of Sciences USA*, 64: 1380-1387, 1969.
13. Mann, D.L., Fahey, J.L., & Nathenson, S.G. Molecular comparisons of papain solubilized H-2 and HL-A alloantigens. *Histocompatibility Testing*. Copenhagen, Munksgaard, pp. 461-467, 1970.
14. Graff, R.G., Mann, D.L., & Nathenson, S.G. Immunogenic properties of papain-solubilized H-2 alloantigens. *Transplantation*, 10: 59-64, 1970.
15. Nathenson, S.G., Shimada, A., Yamane, K., Maramatsu, T., Cullen, S., Mann, D.L., Fahey, J.L., & Graff, R.G. Biochemical properties of papain solubilized murine and human histocompatibility alloantigens. *Federation Proceedings*, 29: 2026-2033, 1970.

16. Leventhal, B.G., Rogentine, G.N. Jr., & Mann, D.L. Sensitization to water soluble transplantation antigens. *Transplantation*, 3: 243-245, 1971.
17. Mann, D.L. & Fahey, J.L. Properties of HL-A alloantigens solubilized by chemical techniques. *Transplantation Proceedings*, 3: 234-237, 1971.
18. Rosenberg, E.B., Mann, D.L., Hill, J.J., & Fahey, J.L. Prolonged allograft survival in mice pretreated with soluble transplantation antigens. *Transplantation*, 12: 402-405, 1971.
19. Merritt, C.B., Mann, D.L., & Rogentine, G.N. Jr. Cytotoxic antibody in human graft versus host disease. *Nature*, 232: 638-641, 1971.
20. Mann, D.L. & Fahey, J.L. Transplantation antigens. *Annual Review of Microbiology*, 25: 679-710, 1971.
21. Einstein, A.B., Mann, D.L., Gordon, H.G., Trapani, R.J., & Fahey, J. Heterologous antisera against specific HL-A alloantigens. *Transplantation*, 12: 299-304, 1971.
22. Einstein, A.B., Mann, D.L., Gordon, H.G., & Fahey, J.L. The immune reactivity of heterologous antisera against solubilized lymphoid cell membrane component. *Tissue Antigens*, 1: 209-218, 1971.
23. Einstein, A.B., Mann, D.L., Ficker, S., & Terry, W.D. Antiserum to soluble lymphoid membrane preparation stimulates human leukocyte DNA synthesis. *Journal of Immunology*, 107: 1205-1208, 1971.
24. Whisnant, J., Mann, D.L., Rogentine, G.N. Jr., & Robbins, J. Human cell surface structures related to haemophilus influenzae type B disease. *Lancet*, 2: 895-898, 1971.
25. Mann, D.L., Halterman, R., Rogentine, G.N. Jr., & Leventhal, B. Detection of an acute leukemia associated antigen. *Science*, 174: 1136-1137, 1971.
26. Mann, D.L. Effect of enzyme inhibition on the solubilization of HL-A antigen with 3M KCl. *Transplantation*, 14: 398-401, 1972.
27. Amos, B.D., Bodmer, W.F., Ceppellini, R., Condliffe, P.G., Dausett, J., Fahey, J.L., Goodman, H.C., Klein, G., Klein, J., Lilly, F., Mann, D.L., McDevitt, H., Nathanson, S., Palm, J., Reisfeld, R.A., Rogentine, G.N., Sanderson, A.R., Shreffler, D.C., Simonsen, M., & van Rood, J.J. Biologic significance of histocompatibility antigens. *Federation Proceedings*, 31: 1087-1104, 1972.
28. Halterman, R., Leventhal, B.G., & Mann, D.L. An acute leukemia associated antigen: Clinical correlation. *New England Journal of Medicine*, 287: 1272-1274, 1972.
29. Gavin, J.R., Mann, D.L., Buell, D.N., & Roth, J. Preparation of solubilized insulin receptors from human lymphocytes. *Biochemical and Biophysical Research Communication*, 49: 870-876, 1972.
30. Mann, D.L., Halterman, R., & Leventhal, B.G. Cross reactive antigens on human cells infected with Rauscher leukemia virus and on human acute leukemia cells. *Proceedings of the National Academy of Sciences*, 70: 495-497, 1973.
31. Yust, I., Wunderlich, J.R., Mann, D.L., & Buell, D.N. Cytotoxicity mediated by human lymphocyte dependent antibody in a rapid assay with adherent target cells. *Journal of Immunology*, 110: 1672-1681, 1973.

32. Mann, D.L., Halterman, R., & Leventhal, B. Acute leukemia associated antigens. *Cancer*, 34: 1446-1451, 1974.
33. Springer, T.A., Strominger, J.L., & Mann, D.L. Partial purification of detergent soluble HL-A antigen and its cleavage by papain. *Proceedings of the National Academy of Sciences USA*, 71: 1539-1543, 1974.
34. Yust, I., Wunderlich, J.R., Mann, D.L., & Terry, W.D. Identification of lymphocyte dependent antibody in sera from multiply transfused patients. *Transplantation*, 18: 99-107, 1974.
35. Yust, I., Wunderlich, J., Mann, D.L., Leventhal, B., Yankee, R., & Graw, R. Human lymphocyte dependent antibody mediated cytotoxicity and direct lymphocyte cytotoxicity against non-HL-A antigens. *Nature*, 249: 263-265, 1974.
36. Strominger, J.L., Cresswell, P., Grey, H., Humphreys, R.H., Mann, D.L., McCune, J., Parham, P., Robb, R., Sanderson, A.R., Springer, T.A., Terhorst, C., & Turner, M.J. The immunoglobulin-like structure of human histocompatibility antigens. *Transplantation Reviews*, 21: 126-143, 1974.
37. Robb, R.J., Humphreys, R.E., Ruller, T.C., Mann, D.L., & Strominger, J.L. Rabbit antisera to papain-solubilized HL-A antigens. *Transplantation*, 19: 445-447, 1975.
38. Yust, I., Smith, R.W., Dickler, H.B., Wunderlich, J., & Mann, D.L. Human lymphocyte dependent antibody mediated cytotoxicity: Adherence of lymphocytes to antibody treated target cells. *Cellular Immunology*, 18: 176-186, 1975.
39. Mann, D.L. An approach to the development of antisera to tumor associated antigens: Experience with acute leukemia and melanoma. Monograph: Symposium on Immunologic Reactions to Melanoma Antigens. *Behring Institute Mitteilungen*, 56: 103-106, 1975.
40. Mann, D.L., Leventhal, B., & Halterman, R. Human antisera detecting leukemia associated antigens on autochthonous tumor cells. *Journal of the National Cancer Institute*, 54: 345-347, 1975.
41. MacDonald, J.S., Wunderlich, J.R., Yust, I., Mann, D.L., & Yankee, R.A. Complement-dependent and cell-dependent antiplatelet humoral antibody in sera from multiply transfused patients. *Clinical and Experimental Immunology*, 21: 259-266, 1975.
42. Miller, J.L., Mann, D.L., & Yust, I. Separation of complement dependent and lymphocyte dependent activity in human sera. *European Journal of Immunology*, 5: 546-548, 1975.
43. Mann, D.L., Abelson, L., Harris, S., & Amos, D.B. Detection of antigens specific for "B" lymphoid cultured cell lines with human alloantisera. *Journal of Experimental Medicine*, 142: 84-89, 1975.
44. Sacks, K.L., Olweny, C., Mann, D.L., Simon, R., Johnson, G.E., Poplack, D.G., & Leventhal, B.D. A clinical trial of chemotherapy and RAJI immunotherapy in advanced acute lymphatic leukemia (ALL): Clinical and laboratory observations. *Cancer Research*, 35: 3715-3720, 1975.
45. Mann, D.L., Abelson, L., Henkart, P., Harris, S.D., & Amos, D.B. Specific human B lymphocyte alloantigens (L-B) linked to HL-A. *Proceedings of the National Academy of Sciences*, 72: 5103-5106, 1975.
46. Pendergrass, T.W., Stoller, R.G., Mann, D.L., Halterman, R.H., & Fraumeni, J.F. Acute myelocytic leukemia and leukemia associated antigens in sisters. *Lancet*, ii: 429-431, 1975.

47. Turner, M.J., Cresswell, P., Parham, P., Strominger, J.L., & Mann, D.L. Purification of papain-solubilized histocompatibility antigens from a cultured human lymphoblastoid line, RPMI 4265. *Journal of Biological Chemistry*, 250: 4512-4519, 1975.
48. Mann, D.L., Abelson, L., Harris, S., & Amos, D.B. A second genetic locus within the HL-A region for human B cell alloantigens. *Nature*, 259: 145-146, 1976.
49. Mann, D.L., Katz, S.I., Nelson, D.L., Abelson, L.D., & Strober, W. Specific B-cell antigens associated with gluten-sensitive enteropathy and dermatitis herpetiformis. *Lancet*, 1: 110-111, 1976.
50. Yust, I., Smith, R.W., Wunderlich, J.R., & Mann, D.L. Temporary inhibition of antibody-dependent, cell-mediated cytotoxicity by pretreatment of human attacking cells with ammonium chloride. *Journal of Immunology*, 116: 1170-1172, 1976.
51. Terhorst, C., Parham, P., Mann, D.L., & Strominger, J.L. Structure of HLA antigens: Amino acid and carbohydrate compositions and N-terminal sequences of four antigen preparations. *Proceedings of the National Academy of Sciences USA*, 73: 910-914, 1976.
52. Humphreys, R.E., McCune, J.M., Chess, L., Herrmann, H.C., Malenka, D., Mann, D.L., Parham, P., Schlossman, S.F., & Strominger, J.L. Isolation and immunologic characterization of a human, B-lymphocyte-specific cell surface antigen. *Journal of Experimental Medicine*, 144: 98-112, 1976.
53. Miller, J.L., Humphreys, R.E., & Mann, D.L. Lack of association of human "B cell" antigens and Fc receptor activity of antibody-dependent cytotoxic lymphocytes. *Journal of Immunology*, 117: 491-496, 1976.
54. Robb, R., Mann, D.L., & Strominger, J.L., Rapid purification of detergent-solubilized HLA antigens by affinity chromatography employing anti-2 microglobulin serum. *Journal of Biological Chemistry*, 251: 5427-5428, 1976.
55. Romano, P.J. & Mann, D.L. Specific MLC stimulation by cultured B cells. *Tissue Antigens*, 8: 9-12, 1976.
56. Nilsson, S., Schwartz, B., Waxdal, M., Green, I., Cullen, S., & Mann, D. A human alloantiserum detects Ia-like molecules on chronic lymphocytic leukemia cells. *Journal of Immunology*, 118: 1271-1274, 1977.
57. Strominger, J.L., Mann, D.L., Parham, P., Robb, R., Springer, T., & Terhorst, C. Structure of HLA-A and HLA-B antigens isolated from cultured human lymphocytes. *Cold Spring Harbor Symposia on Quantitative Biology*, XLI: 323-329, 1977.
58. Springer, T.A., Kaufman, J.F., Giphart, M., Mann, D., Terhorst, C., & Strominger, J.L. Chemical and immunological characterization of HLA-linked B lymphocyte alloantigens. *Cold Spring Harbor Symposia on Quantitative Biology*, XLI: 387-396, 1977.
59. Mann, D.L. Human lymphocyte alloantigens: genetic control and relation to disease. *Clinics in Haematology*, 6: 331-354, 1977.
60. Springer, T.A., Mann, D.L., DeFranci, A.L., & Strominger, J.L. Detergent solubilization, purification, and separation of specificities of HLA antigens from a cultured human lymphoblastoid line, RPMI 4265. *Journal of Biological Chemistry*, 252: 2682-2693, 1977.

61. Nelson, D.L., Strober, W., Abelson, L.D., Bundy, B.M., & Mann, D.L. Distribution of alloantigens on human Fc receptor bearing lymphocytes: the presence of B-cell alloantigens in slg positive but not slg negative lymphocytes. *Journal of Immunology*, 118: 943-946, 1977.
62. Strong, D.M., Knudsen, B.B., Mann, D.L., & Sell, K.W. Frozen-thawed mononuclear cells as a source of B lymphocytes for antibody screening. *Tissue Antigens*, 10: 108-113, 1977.
63. Grier, J.G., Abelson, L.A., Mann, D.L., Amos, D.B., & Johnson, A.H.: Enrichment of B lymphocytes using goat anti-human F(ab)2. *Tissue Antigens*, 10: 236, 1977.
64. Springer, T.A., Kaufman, J.F., Siddoway, L.A., Mann, D.L., & Strominger, J.L. Purification of HLA-linked B lymphocyte alloantigens in immunologically active form by preparative sodium dodecyl sulfate gel electrophoresis and studies on their subunit association. *Journal of Biological Chemistry*, 252: 6201-6207, 1977.
65. Abelson, L.D. & Mann, D.L. Genetic control of B-cell alloantigens: Evidence for gene(s) linked to the HLA-A locus. *Tissue Antigens*, 11: 295-301, 1978.
66. Blattner, W.A., Naiman, J.L., Mann, D.L., Wimer, R.S., Dean, J.H., & Fraumeni, J.F. Immunogenetic determinants of familial acute lymphocytic leukemia. *Annals of Internal Medicine*, 89: 173-176, 1978.
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68. Pena, A.S., Mann, D.L., Hague, N.E., Van Leeuwen, A., van Rood, J.J., & Strober, W. The genetic basis of gluten-sensitive enteropathy. *Gastroenterology*, 75: 230-238, 1978.
69. Moutsopoulos, H.M., Chused, T.M., Johnson, A.H., Knudsen, B., & Mann, D.L. B lymphocyte alloantigens in sicca syndrome. *Science*, 199: 1441-1442, 1978.
70. Stingl, G., Katz, S.I., Abelson, L.D. & Mann, D.L. Immunofluorescent detection of human B cell alloantigens on slg positive lymphocytes and epidermal langerhans cells. *Journal of Immunology*, 120: 661-664, 1978.
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Chapters

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